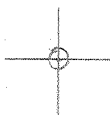


LATITUDE 39°17'30"

LONGITUDE 80°45'00"



7.5 OGIS topo location

7.5' loc	<u>1.96 S</u>	15' loc	<u>4.84 S</u>
	<u>1.96 W</u>	(calc.)	<u>1.96 W</u>

Company _____

Farm _____

Elev. 1180' - 7.5' topo bla 315 h3
+15' SE

Quad WEST UNION 7 1/2

County DODDRIDGE

District WEST UNION

WELL LOCATION MAP

File No. 017-1951

HOPE NATURAL GAS COMPANY.

LOCATION FOR WELL No. 4101 N.

DISTRICT

HOPE NATURAL GAS COMPANY

James P. Gain Farm, on waters of Lewis Run, District, Doddridge County, West Virginia

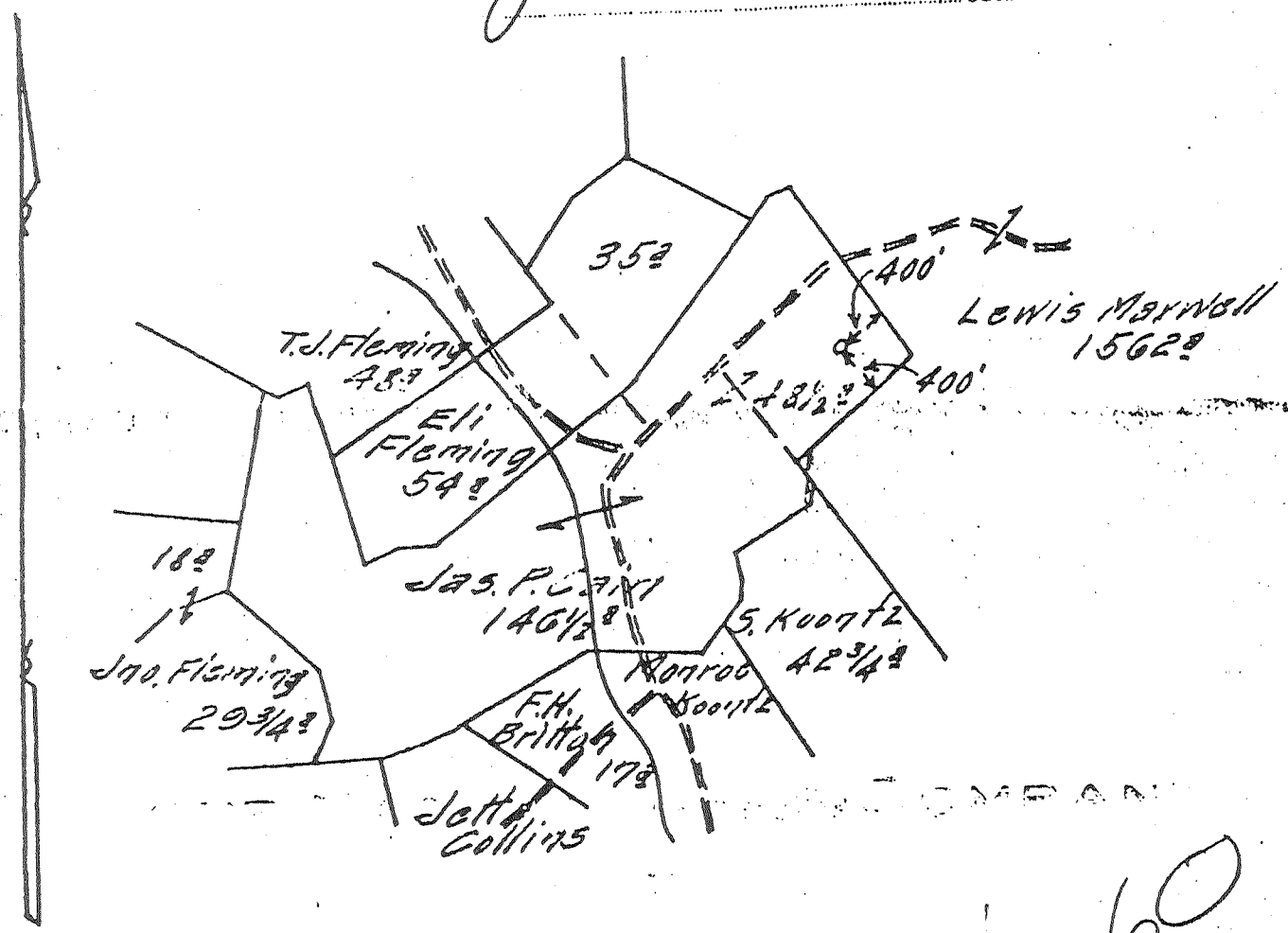
Lease No. 13767 Acres 200 N. 13 E. W. 10

Scale, one inch equals 800 feet Sent to Clarksburg Office Dec 31 1916

Location to be 400 feet respectively from Lewis Maxwell farm lines as per plat.

IN ALL CASES ENGINEERS SHOULD USE CARE IN MAKING LOCATIONS. HAVE LAND OWNERS SIGN AND PRINTED NAMES AND LOCATION. GIVE NAMES AND LOCATIONS WHEN ASKED FOR THEM.

James P. Gain (owner)
Dec 1-13-16



NPL -017-1951

Title..... RESERVE Two hundred feet around the building

SPECIAL INSTRUCTIONS: Complete Well on or Before same lease as above
Cecil Mine No 3233

Location made 1-13-16 by J.P.M. Clintoek as per plat, except as noted. On field map 1-14-16 Returned to Pittsburgh 1-15-16

Location changed on account of.....
Authorized by..... Date..... 1..... Signed.....

Well No. *41014* Located on *James P. Gaines* District *West Union* County *Doddridge* State *W. Va.*

Location Made *1-13-1916* First Work Done *1-13-1916*
 Rig Commenced *2-7-1916* Rig Completed *2-18-1916*
 Drilling Commenced *3-2-1916* Drilling Completed *4-5-1916*
 Rig Contractor *G. N. Williams* Drilling Contractor *J. T. Williams*
 Drillers *Ag. Sloan, Bert Metz* If N. S. Co. Tools. String No. *J. T. Williams*
 Tool Dressers *Bot Knight, Sam Machattar*

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Fossil Depth	Oil Fossil Depth	Gas Fossil Depth	REMARKS
Native Coal	217	715					
Pittsburg Coal	474	475					
Little Dunkard	938	950			1017		Show only
Big Dunkard	1004	1114					
Gas Sand	1160	1415					
First Salt	1415	1456					1447 show only
Second Salt	1661	1687					1677 to 1684 2 1/2" water 2" of
Maxon	1774	1790					
Little Lime	1790	1796					
Pencil Cave	1796	1850					1807 to 1817 10/10 mercury 2" (B)
Big Lime	1850						1892 to 1897
Big Injun							1903 to 1919
Squaw							1953 to 1964
Masson Sand	1124	1146					
Gantz Sand	1228	1249					
Fifty Foot							
Thirty Foot							test 80/10 mercury 2" from Maxon, Big Injun and Injun.
Gordon Stray							
Gordon							
Fourth							
Fifth							
Hayard							
Total Depth		1966					

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	
13" Csg.													
10" "	568	8	473		473				40	5	576	9	Steel line 467
8 1/2" "	1483	11	953	11			953	11			530		" " 941
6 5/8" "	2141	9	1823	1			1823	1	421		276	7	" " 1870
5 1/2" Tbg.	15	3	15	3			15	3					
"							1838	4					

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
2 1/4"	Steel Casingshoe	168	1898	Packer set at 1670.
1 1/4 to 1 1/8"	Anc. Packer			1-ferd set at 21 1/4 ft from B
6 5/8"	Steel Casingshoe			1- " " " 1690 ft

SHOOTING RECORD (if shot before or upon completion of well)

DATE	Gauge	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours
						Reading	Liquid	Opening	Reading	Liquid	Opening	

CEMENTING RECORD

Date Cemented... *Not Cemented* Hole Cemented... Size Casing Cemented...
 Top Pittsburg Coal... Top Cementing... Amount Cement Used...
 Bottom Pittsburg Coal... Bottom Cementing... Amount Sand Used...
 Mr. *W. H. Hook* of *Geo. A. Kinley* Coal Company on ground when coal was cemented
 Remarks: *Well Hook Geo. A. Kinley* Signature of persons who cemented well
W. H. Hook
 Well Map *APR 17 1916 J.C.I.*
 Line Map *APR 29 1916 A.J.D.*
 Sheets *APR 28 1916 H.H.S.*

Approved by *O. S. Stanley* Foreman